

Furnace cleanliness instructions

Even the slightest traces of dirt, grease, etc. will contaminate the furnaces and ruin them for use by others. Consequently everyone must follow the procedure below at all times.

1. Do not touch anything going into the furnace with your bare hands. Use plastic gloves and metal tweezers.
2. The "Wafer Cleaning Procedure" must be followed prior to using the Oxidation furnace, the Phosphorus predeposition furnace or the Boron predeposition furnace. If you are going directly from a predeposition furnace to a drive furnace, a minimum of a 10-sec. dip in 10:1 HF is required. If your wafer has been subjected to contamination between a predeposition and drive, the "Wafer Cleaning Procedure" must be repeated.
3. **Use the proper boat, boat holder, and push rod. Each furnace has its own set.**
4. When loading and unloading wafers, set the endcap temporarily in a Petri dish. Replace endcap on tube when finished. **Always wear the thermally insulating gloves while handling the endcap.**
5. Boats should be stored at the end of each furnace tube.
6. The push rod must be cleaned by the first user each day. A cleaning is performed in the trough under the HF hood by dripping 49% HF on the push rod followed by a thorough DI H₂O rinse.
7. Place the push rod and the boat holder in the proper location when finished.
8. The boat, boat holder and furnace endcap must be cleaned in the same manner by the first user each week.